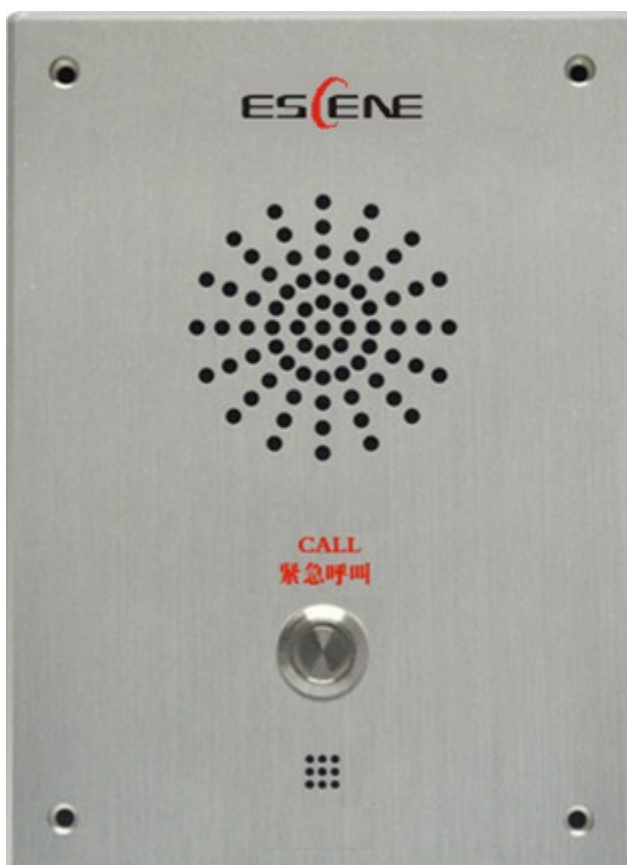


SayHi™



IP Intercom User Manual

IS760-P(W)



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About this manual

Thank you for choosing IP Network Intercom IS710-P(W).This IP Network Intercom is specially designed for the user under the public environment with fashionable appearance and complete functions. This manual aims to help you quickly use IP Network Intercom IS710-P(W).Before use ,please read the packing list and safety notes section of this manual ,communicate with the system administrator to confirm if the current network environment can meet the requirements of configuring the phone. If this is your first time to use IP Network Intercom IS710-P(W),we recommend that you should read the quick installation guide and product technical manual. The document can be downloaded from the following website: <http://www.escene.cn/en>.

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1.Getting Started

1.1 Outline

Integrated IP network intercom panel IS710-P (W) wired, wireless-based devices is a hands-free intercom system which is adopting a new generation of IP & SIP technology and based on the innovation of carrier-grade IP telephony solution. It solves the problem of non-standard broadcast protocol existing in the traditional IP digital broadcasting intercom system ,inadequate intelligence, weak application service capacity and the telephone network connectivity difficulty etc. This system is well-organized and its each access point do not need to be wired separately ,meanwhile as long as connecting the device to a local area network ,it can form a powerful intercom communication system with the supporting system and realize the syncretic multi-network of computer network, digital video surveillance, internal communication .Its applications involve financial sector, industrial group, rail transportation, prisons and hospitals etc.

1.2 Product Features

- High-grade brushed aluminum panel is durable ,can be surface mounted, embedded and possesses protection grade IP54 (waterproof cover should be equipped.).
- One key function of the emergency call for help, one key function of fast broadcasting, partition broadcasting, two-way and hands-free calls, remote maintenance, providing the system ports of access control, alarm, recording etc.
- Security Center can directly dial and page any intercom panels, or monitor any intercom panels.
- When facing emergency calling / being monitored, the intercom panel cannot hang up on its own initiative in order to guarantee the fluent call for help .
- It can be embedded in the wall for concealed installation or wall mounted for surface installation , which is suitable to avoid the cable from exposing users , ensure the safety of internal network information and provide the configuration port and remote configuration capabilities.
- In addition to the broadcast mode, the center and the terminal are all adopting two-way hands-free calling patterns, which helps to communicate more intimately.

- The device has reserved the ganged port for the system of access control, alarm, video surveillance etc.
- Support remote web management and maintenance e.g. account maintenance, software upgrades, volume control and the signal control for switch value .
- Support POE power supply and external power adapter, POE function is unworkable in WIFI series .
- WIFI Series is easy to be installed with strong expansion ,its RJ45 port having a dual-use nature can be used as LAN port which is the same with the use of ordinary series when people manually turn off WIFI.

1.3 Technical Information

Phone features
WEB Multi-language ; Support 1 account line , one key function of the emergency call for help, realize full-duplex and two-way voice intercom calls; Active / passive support ;Support calls holding, calls waiting and calls transfer; Call transfer (busy turn, blind turn, consulting turn), mute, don't disturb(DND), Auto answer, three-way conference, the volume control and so on; support IP direct dial without account;
Network parameters
Support SIP V1 (RFC2543) ,V2 (RFC3261) ; Support DNS SRV (RFC3263) ; Support STUN network penetration; Support 3 DTMF model: In-band, RFC2833, SIP INFO; Support Network model : Static IP/DHCP/PPPoE ; built-in DNS/TFTP/FTP terminal ; Support NAT/DHCP service ; Support SIP and RTP QoS
Security
Support VLAN (802.1pq) , LLDP, VPN (L2TP/OPEN_VPN) ; Support TLS (Transport Layer Security) protocol ; Support information authentication mechanism MD5 ; Support AES encryption protocol; Support the Root/User level management mode.
Audio features
Wideband encoding: G.722 ; Narrow band encoding:G.711μ/A, G723.1, G726, G.729AB , iLBC ; Support VAD, CNG, AEC, AGC etc. audio processing ; Full duplex speaker, with automatic echo elimination (AEC).
Physical properties
Two RJ-45 10/100M Ethernet interfaces(LAN & Extension performance),under IS710-P,the LAN port is for LAN;IS710-W LAN port for WIFI series ,when WIFI function opening ,it is PC port , when WIFI function closing; Extension performance port;1&2 is for MIC Plus-n-Minus,3&6is for Speaker Plus-n-Minus,4&5is for Power Plus-n-Minus,7&8 is for Button Control Signal. One power adapter port; IP network intercom output: 2Watts 8Ω; Power: DC 12V/1A;Two 3.5mm port, namely a recording port, a monitoring trigger alarm or other notification port. Four 2PIN port, namely the power input, IP network intercom output and two sets of switching value inputs which can be connected to monitor equipment or other security equipment.

Two 3PIN ports, namely 2 sets of switching value outputs which can be connected to monitor equipment or other security equipment.

One touch button, one key to quickly restore the factory value(refer to soft recovery, not hard recovery).

One high-intensitive anti-sabotage industrial button.

Each motherboard port, check the picture illustration below "Mother Broad Interface".

Carton packaging

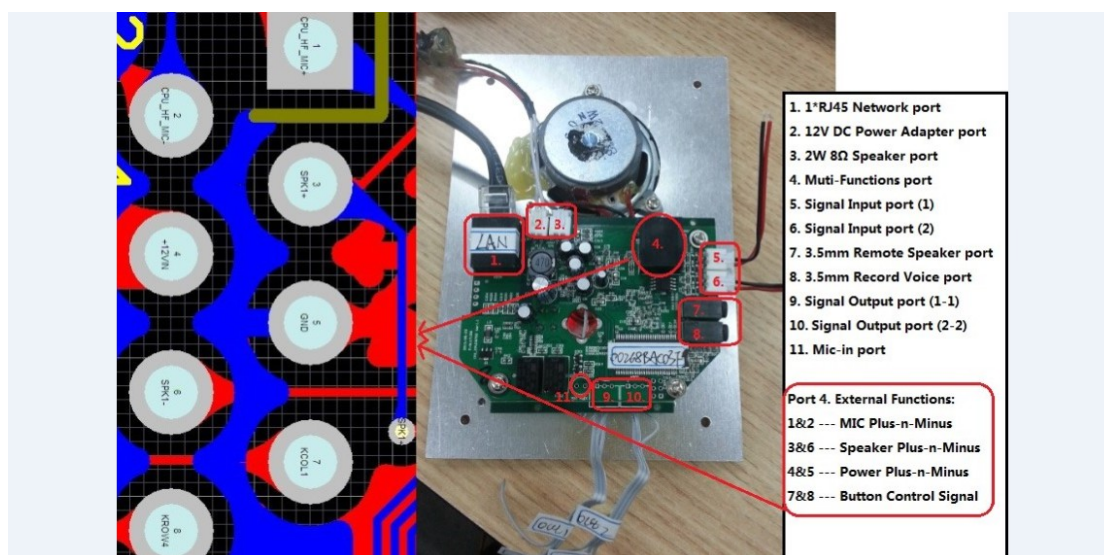
The whole Size: 168*116*42mm

Product Certification



Platform Compatibility Test (non-certificate)

ZTE/Alcatel-Lucent/Asterisk/Broadsoft/Metaswitch/Yeastar/Avaya/3CX/Elastix/HUAWEI etc.



Mother Broad Interface

2.Phone Installation

Generally system administrator will connect your new IS710-P(W)IP Phone to company LAN network.If not,please refer to below illustration.

Open IS710-P(W)packing box,according to the packing list,check the related attachment to make sure to no omitting.Packing list as follows.

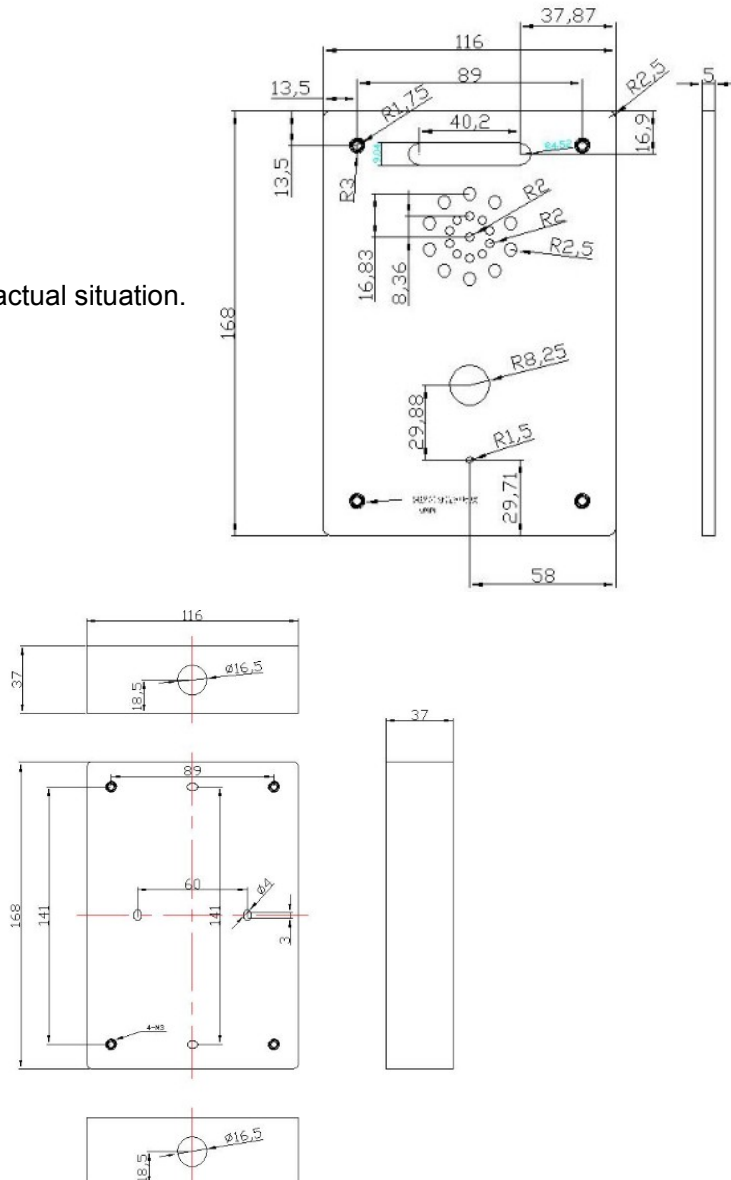
- IS710-P(W)Phone
- Quick operating guide

IS710-P(W) could be installed to internet according to the below steps.

2.1 Embedded

If the product is used for embedding, then the cutting of embedded need to be a little bigger than the installing hole of standard dimension 168*116*42mm. (42mm means the extra aluminum housing thickness.), as follows. Notice: the embedded value is up to the

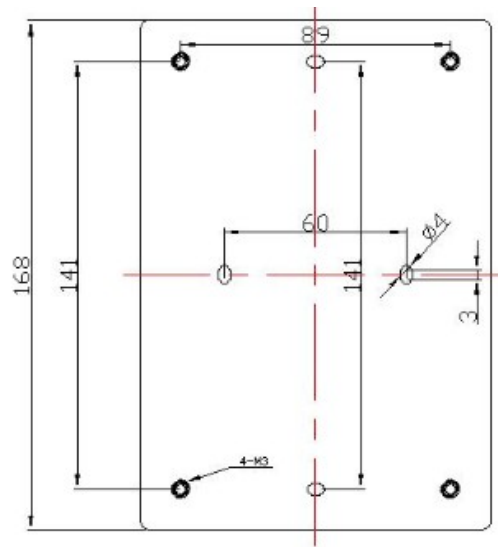
actual situation.



2.2 Equipment installation

- 1、Open the aluminum housing.
- 2、built in the IP intercom according to the cutting embedded specification. after built-in,

fix four M3.5*12 screw on the wall with the screw driver.



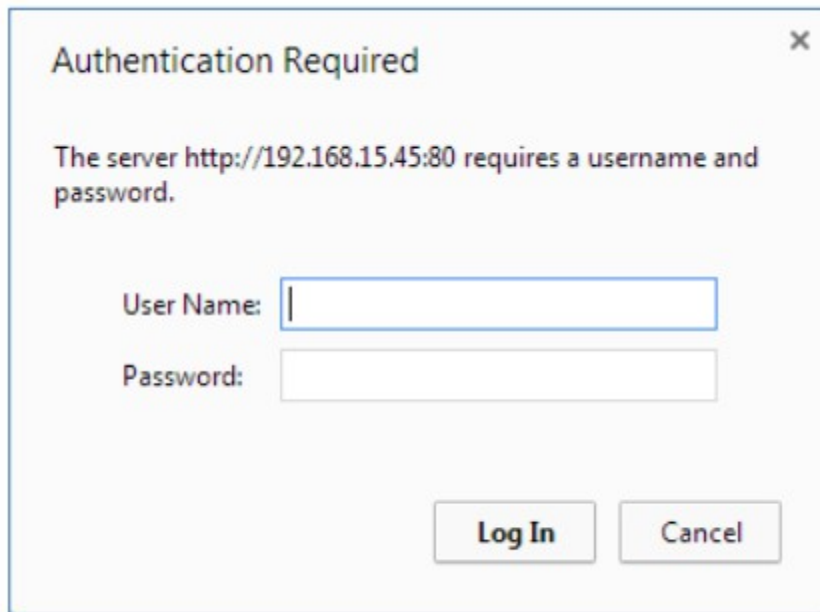
3、 After installing inter housing,Well-set the related wiring and replace the aluminum housing.then power on and start testing.

3.Configuration of IP intercom

You need to know the IP address of IP network intercom before starting setting. you could learn how to get IP address below. Default IP address is 192.168.1.153.in static status. If getting from DHCP, you need to search the related IP address by the third software scanning equipment MAC. (getting IP by DHCP is not suggested.)

3.1 Remote WEB Management

Once input the IP address of intercom on the web browser and tap the “enter” on the keyboard. Then a login screen will pop up from the intercom equipment. You need to input user name and password. Both default user name and password of system is case letters “root”



A dialog box titled "Authentication Required" with a close button (X) in the top right corner. The text inside reads: "The server http://192.168.15.45:80 requires a username and password." Below this text are two input fields: "User Name:" followed by a text box, and "Password:" followed by a password box. At the bottom right are two buttons: "Log In" and "Cancel".

After the log-in, the administrate web page of the intercom will pop up.



The setting and parameter of each option will be describe as follow.

3.2 Network

This option is used for the network setting, please notice that if you have WIFI speaker, then you could set the LAN and VPN.

3.2.1 WIFI Setting

Pls note that the option is just support item IS710-W.

The below operation will guide you how to connect the WIFI intercom to WIFI network,if you know WIFI hot spot SSID,you could input in the text box are,you could also search "SITE SURVEY" according to the hot spot.

WIFI Setting

You can enter the Wireless Network Name of AP.

Site Survey

Wireless Network Name (SSID):

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
------	-------	---------	------	---------	--------	--------

Next

WIFI Setting

You can enter the Wireless Network Name of AP.

Site Survey

Wireless Network Name (SSID):

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
escene	00:25:86:5c:a3:20	11 (B+G)	AP	WPA-PSK/WPA2-PSK	68	<input checked="" type="radio"/>
TP-LINK_47C57C	00:23:cd:47:c5:7e	6 (B+G+N)	AP	WPA-PSK/WPA2-PSK	48	<input type="radio"/>
escene02	00:19:e0:ac:50:58	1 (B+G)	AP	WPA-PSK/WPA2-PSK	38	<input type="radio"/>
TENDA	00:b0:0c:01:4a:31	6 (B+G)	AP	no	28	<input type="radio"/>
JINGTUO	f4:ec:38:38:99:22	9 (B+G+N)	AP	WPA-PSK/WPA2-PSK	28	<input type="radio"/>
xinxin	f4:ec:38:49:7e:34	8 (B+G+N)	AP	WPA2-PSK	26	<input type="radio"/>

Next

3.2.2 WIFI Status

Pls note that the option is just support item IS710 -W.Once the device connect to the WIFI hot spot,you could use the below operation to check the WIFI connecting status.

WIFI Status

Wireless Configuration

Mode: Infrastructure Client

Band: 2.4 GHz (B+G+N)

SSID: escene

Channel: 11

Encryption: WPA

BSSID: 00:25:86:5c:a3:20

State: Connected

Refresh

3.2.3 LAN Setting

This option is used for setting speaker IP, as shown below.

LAN Port

IP settings

☐ DHCPHostname(Optional): Manufacturer(Optional): ☒ Static IPIP Address: Netmask: Gateway: ☐ PPPoEUsername: Password: MTU: Default: 1500

DNS Settings

☐ Automatic☒ Manual DNSPrimary DNS: Secondary DNS:

MAC Address

MAC Address: 00:26:8b:ac:03:f1

Port Management Settings

HTTP Port: Telnet Port:

Socket5 Proxy Server

Socket5 Proxy Server: ☒ off ☐ onServer IP: *Port: *

Anonymous Login: ☒

Username:

Password:

Paging Setting

Paging 1: ☒ off ☐ on

Group IP: Port:

Paging 2: ☒ off ☐ on

Group IP: Port:

Paging 3: ☒ off ☐ on

Group IP: Port:

Paging 4: ☒ off ☐ on

Group IP: Port:

Paging 5: ☒ off ☐ on

Group IP: Port:

Please Note: Changing the default HTTP Port (80) will require using the new port number to access the IP phone web interface. Please note that changes require a reboot. Use the following format when not using the default HTTP (http://ip address:portnumber).

3.2.4 PC Setting

PC Setting could just being used in IS710-W Model. When setting network bridge pattern at PC port, you could connect another internet equipment to PC port, amount to a port of a switch.

PC Port

☒ Bridge

☐ Router

IP Address: *

Netmask: *

DHCP Server: ☒ off ☐ on

Start IP:

End IP:

3.3 SIP Account

ESCENE IP network intercom can be set up one SIP account, account's user name, password and server address are mandatory. If all the information filled is valid and correct, then register will be launched from SIP server after submitting and saving.

Account1

SIP Settings

Enable: ☒

Account Mode: VOIP

Display Name:

Username: 3002 *

Authenticate Name:

Password: •••• *

Label:

SIP Server: 192.168.0.7

Secondary server:

OutboundProxy Server:

Secondary OutboundProxy Server:

Polling Interval Time Of Registration: 32 s Default Value: 32s, Range: 20s~60s

NAT Traversal: Disable

STUN Server:

BLA: ☒ off ☐ on

BLA Number:

Call Method: ☒ SIP ☐ TEL

Subscribe Period: 1800 Default: 1800s, Min: 120s

Register Expire Time: 3600 Default: 3600s, Min: 40s

DNS-SRV: ☒ off ☐ on

SIP Transport: ☒ UDP ☐ TCP ☐ TLS

Call

Amount Of Line Account Used: 2 (Default: 2)

Do Not Disturb: ☒ off ☐ on

Anonymous Call:	<input checked="" type="radio"/> off <input type="radio"/> on
Anonymous Call Rejection:	<input checked="" type="radio"/> off <input type="radio"/> on
Use Session Timer:	<input checked="" type="radio"/> off <input type="radio"/> on
Session Timer:	<input type="text" value="300"/> (min:30s)
Refresher:	<input type="text" value="UAS"/>
Allow-events:	<input checked="" type="radio"/> off <input type="radio"/> on
Registered NAT:	<input type="radio"/> off <input checked="" type="radio"/> on
Ring Type:	<input type="text" value="None"/>
UDP Keep-alive Message:	<input checked="" type="radio"/> off <input type="radio"/> on
UDP Keep-alive Interval:	<input type="text" value="30"/> (15-60s)
Security	
SIP Encryption:	<input checked="" type="radio"/> off <input type="radio"/> on
RTP Encryption:	<input checked="" type="radio"/> off <input type="radio"/> on
Encryption Algorithm:	<input type="text" value="RC4"/>
Encryption Key:	<input type="text"/>
<input type="button" value="Submit"/>	

3.4 Programmable keys

This function is reserved for the future.

3.5 Voice

You can manage the speaker volume ranks and microphones which showed in the following table. Please note that in most cases, if you open the microphone and switch to level 7, then don't use speaker volume more than level 4, unless you can ensure that your coverage is small or noise reduction level is high.

Audio	
Tone	
Select Country: United States ▼	Ring Volume(0~9): 3
Begin Time: 20 Hour - 8 Hour	Ring Volume in Night(0~9): 3
Output Volume (1~9)	Input Volume(1~7)
Handset Volume: 5	Handset Mic Volume: 3
SpeakerPhone Volume: 5	SpeakerPhone Mic Volume: 3
Headset volume: 5	Headset Mic Volume: 3
Voice Codec	
Payload Length: 20 ▼ ms	High Rate of G723.1: <input checked="" type="checkbox"/>
Jitter Buffer	
Type: <input checked="" type="radio"/> Adaptive <input type="radio"/> Fixed	
Min Delay: 60	Max Delay: 500
Other	
VAD: <input type="checkbox"/>	Echo Suppression Mode: <input type="checkbox"/>
SideTone: <input type="checkbox"/>	
Ring	
Ring Type: Ring1 ▼	Delete
Ring Type2: Ring1 ▼	
Uploading Ring Tone	
<div> <input type="text"/> 浏览... </div> <div> Browse... </div> <div> Upload Cancel </div>	
(Please upload a ring tone with G711A audio coding, Maximum 10 rings and the total sizes must less than 150k.)	
Audio Codes:	
enableCode	<div> <div> Up </div> <div> Down </div> </div> <div> G722 G711A G711U G729A G723 </div> <div> << >> </div> <div> iLBC G726_32 </div> <div> disableCode </div>
Submit	

3.6 Phone Book

This function is reserved for the future.

3.7 Advanced Setting

In advanced configuration, system parameters are the main points, other options, such as web dial-up, dialing rules, IP filtering strategy, ring tones, certificate management and global server, etc., most are reserved function which could be ignored.

3.7.1 Phone Setting

System parameters can be configured IP network intercom's basic configuration, PSTN Settings (reserved), QoS, call related, VoIP call forward, time Settings, and others. The commonly used functions in the option below are mainly introduced, other functions do not be arbitrarily changed

3.7.1.1 Switch signal output

Switch signal output 1 ~ 2 which can be controlled by multiple variables, the monitoring server message control is define variable which can coordinate and adjust to be compatible with the special requirements of some particular platform.

Phone Setting					
Basic					
OutPut1:	<input checked="" type="checkbox"/> Press Key	<input checked="" type="checkbox"/> InPut1	<input checked="" type="checkbox"/> InPut2	<input checked="" type="checkbox"/> Server Control	
OutPut2:	<input type="checkbox"/> Press Key	<input type="checkbox"/> InPut1	<input type="checkbox"/> InPut2	<input type="checkbox"/> Server Control	

3.7.1.2 Hot Line

Hotline function is the goal of emergency button on the panel paging, default to hotline immediately. Of course, it can be sent by different ways according to different environment.

Hot Line Function:	<input type="radio"/> off	<input checked="" type="radio"/> Immediately Hot Line	<input type="radio"/> Delay	<input type="text" value="5"/> s (5-30)
Hot Number:	<input type="text" value="1234"/>			

3.7.1.3 Time Setting

IP network intercom's time access can be SNTP, manual setting and update at the SIP server below, PSTN is reserved options.

Set Time Mode:	<input type="radio"/> SNTP	<input checked="" type="radio"/> SIP Server	<input type="radio"/> PSTN	<input type="radio"/> Manual
----------------	----------------------------	---	----------------------------	------------------------------

3.7.2 VLAN Setting

When IP network intercom's application environment involves the VLAN, the below operating will guide you how to use.

VLAN Setting

LAN Port

Enable VLAN: ☐

VID: (0~4094)

Priority: (0~7)

PC Port

Enable VLAN: ☐

VID: (0~4094)

Priority: (0~7)

3.7.3 VPN Setting

When IP network intercom's application environment involves the VPN, the below operating will guide you how to use.

VPN Setting

Enable VPN: ☐

VPN Type: ▼

L2TP

VPN Server Addr:

VPN User Name:

VPN Password:

OPEN VPN

Attention: The trusted certs dir is /mnt/sip/vpn/

Upload VPN Config:

3.8 Maintenance

This part mainly introduces some maintenance method. According to the below, you can reconfigure Intercom IP Phone or view Intercom IP Phone log to gain more information about maintenance.

3.8.1 Log

For most famous systems, log document will offer the record born by behavior change of Intercom IP Phone. Log document information contains the question you need to investigate. It can upload log document to the appointed Server as you need to gain information from it.

Log

☐ No Record
☒ Call: Error Level ▼
☐ SIP
☐ LCD

Log send to server: ☒ off ☐ on

Log Server Address: : 514

Capture Packet:

3.8.2 Password

If you need to change the default password of Intercom IP Phone, so you need to configure password information. Please note that password modification to ensure safety rather than distribute to anyone, unless they allows you to interact with the Intercom IP Phone.

Password

Username:

Old Password:

New Password:

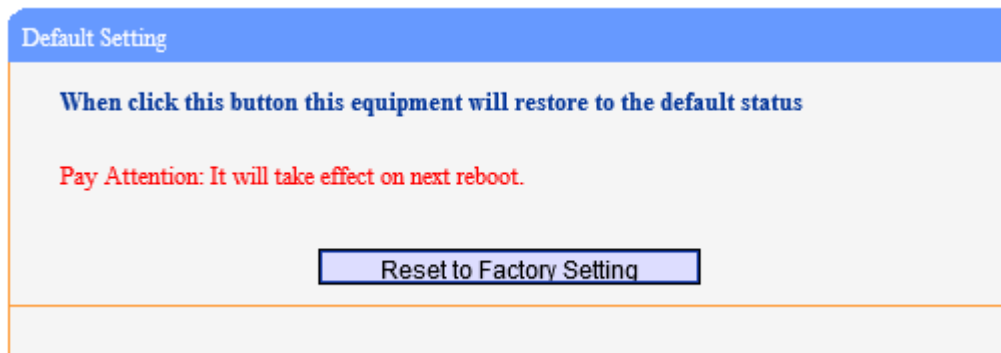
Confirm Password:

☒ Administrator ☐ User

3.8.3 Factory reset

The following will direct you how to reset the factory default. Please note that factory reset will erase all original configuration information, so be cautious to

use this function. IP address will recover to be default: 192.168.1.153.



3.8.4 Auto Provision

Intercom IP Phone's automatic update feature is that it automatically read related configuration files from the server, thus to replace manual update operations. The following will illustrate related operations, such as the server name or address, verify the user name and password (optional), inspection cycle, reboot detection, etc.

Auto Provision

Auto Provision: ☒ on ☐ off

Option: (Default :66, Min:1, Max:254)

Protocol:

Software Server URL:

Username:

Password:

☒ Auto Download Software

☒ Auto Download Kernel

☒ Auto Download Config File

☐ Broadsoft Compatibility

☒ Auto Download Expansion

☒ Auto Download Enterprise Phonebook

☒ Auto Download Personal Phonebook

☒ Booting Checked

Disable the phone while booting checking: ☒ off ☐ on

Auto Provision Frequency: Hour (Default :7 days, Max:30 days)

Auto Provision Time:

Auto Provision Next Time: Thu Apr 10 20:28:59 2014

AES Enable: ☒ off ☐ on

AES Key:

3.8.5 TR069 Upgrade

This function will cooperate with telecom IMS platform to use. Please follow below.

TR069

☐ Cwmp Enable

Protocol: HTTPS

Cwmp Host URL:

Cwmp Port:

Serial Number: 00100400YJ012050000000268bac03f1

Username:

Password:

Password

New Password:

Confirm Password:

Alter Password

Submit

3.8.6 FTP Upgrade

The following will direct you when you use FTP to upgrade.

FTP Upgrade (Attention: Do not cut off the electricity when Upgrade!!)

Server IP:

Filename:

Username:

Password:

Software Upgrade: Upgrade

Kernel Upgrade: Kernel Upgrade

Note: It's no necessary to input filename when backup.

Configuration: Update Backup

Phone Book: Update Backup

EXT Module: Update Backup

3.8.8 TFTP Upgrade

The following will direct you when you use TFTP to upgrade.

TFTP Upgrade (Attention: Do not cut off the electricity when Upgrade!!)

Server IP:

Filename:

Software Upgrade:

Kernel Upgrade:

Note: It's no necessary to input filename when backup.

Configuration:

Phone Book:

EXT Module:

3.8.9 HTTP Upgrade

The following will direct you when you use HTTP to upgrade.

HTTP Upgrade (Attention: Do not cut off the electricity when Upgrade!!)

HTTP Upgrade:

Select a File:

Software Upgrade:

Kernel Upgrade:

Configuration:

XML PhoneBook:

Vcard:

EXT Module:

Log:

All Config File:

3.8.10 Reboot

The following will direct you if rebooting Intercom. Please note that do not reboot unless hooking or no reaction situations which is rare occurrence.

Reboot

Attention: When click this button this equipment will be reboot, web service will be interred, please connect again.

3.9 Phone Status

The following will direct you information of system operation working time, account registration status and network setting

Phone Status	
System Run Time	0 Day0 Hour25 Minute46 Second
Register status	Account1: None
Network Status	
LAN Connection:	Static
LAN IP Address:	192.168.1.153
Netmask:	255.255.255.0
Gateway:	192.168.1.1
Primary DNS:	192.168.0.1
Secondary DNS:	0.0.0.0
VPN IP Address:	
PC IP Address:	
PC Netmask:	
Device Type:	Bridge
DHCP Server:	off
Hardware	
Hardware ID:	1
Refresh	

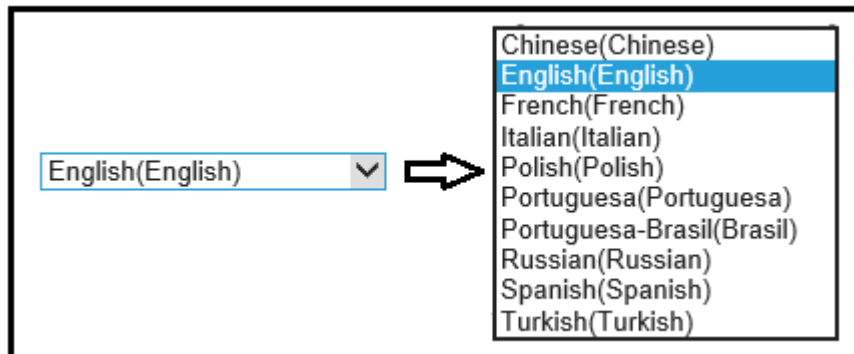
3.10 System Info

The following will direct you equipment name, software/hardware version No, kernel version No. and related server address.

System Info
Phone Model: IS710
Software Version: V3.0.0.0-4788
Hardware Version: V2.x.x
Kernel Version: V2.6.1
AutoProvision Server URL: voip.autoprovision.com
TFTP Server IP: voip.autoprovision.com
Refresh

3.11 Language

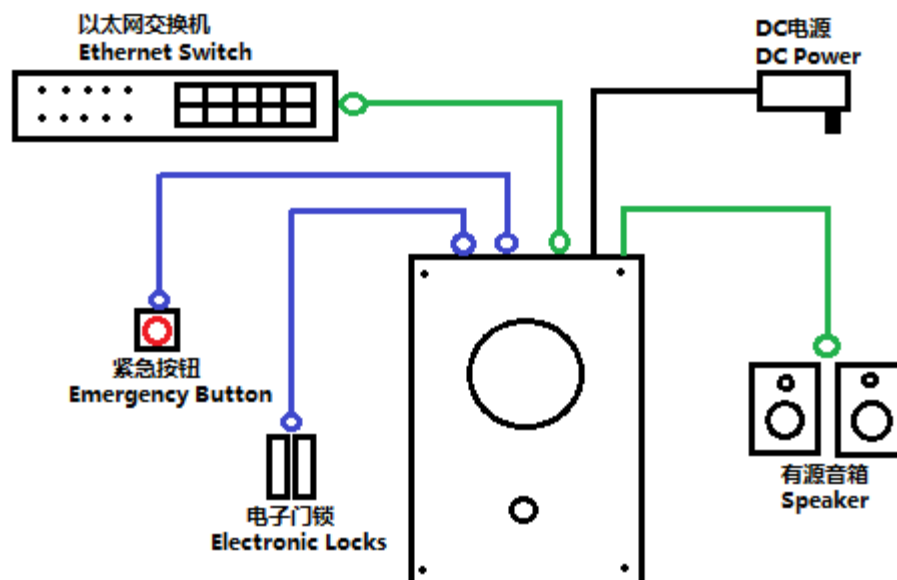
The following will direct you how you to change language with the intercom.



4. Brief pictures for application environment

The following pictures introduce the practical application of IP intercom, take door security and fire protection for example. More compatibility application is subject to actual test.

4.1 Door security system application



4.2 Fire protection system application

